INDUSTRIAL ROBOT ARM

Edris Group : Ibrahem saber , Ahmed sami And Edris Yahya

Project Plan Smart Methods

Our Team

Ibrahem saber

Robot and artificial intelligence

Ahmed sami

Robot and artificial intelligence

Edris Yahya

Industrial

Abdulrahman

Electronics and electrical power

Project Plan

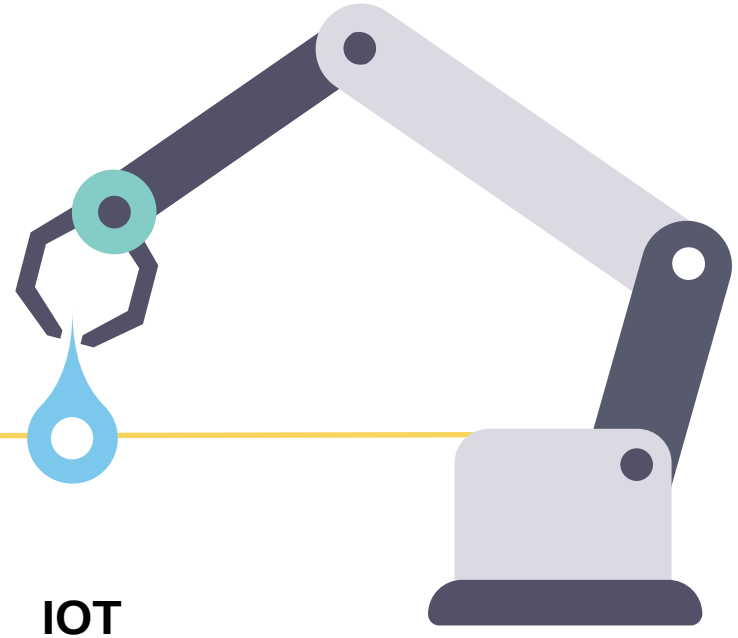
Teamwork

The way we work will be collective , The team will work together in all tasks and in parallel to conserve time, exchange experiences and skills, and preserve time

Our industrial robot arm is to help laboratories, and factories to increase production by carrying materials and small products.

Project Plan

Task Distribution



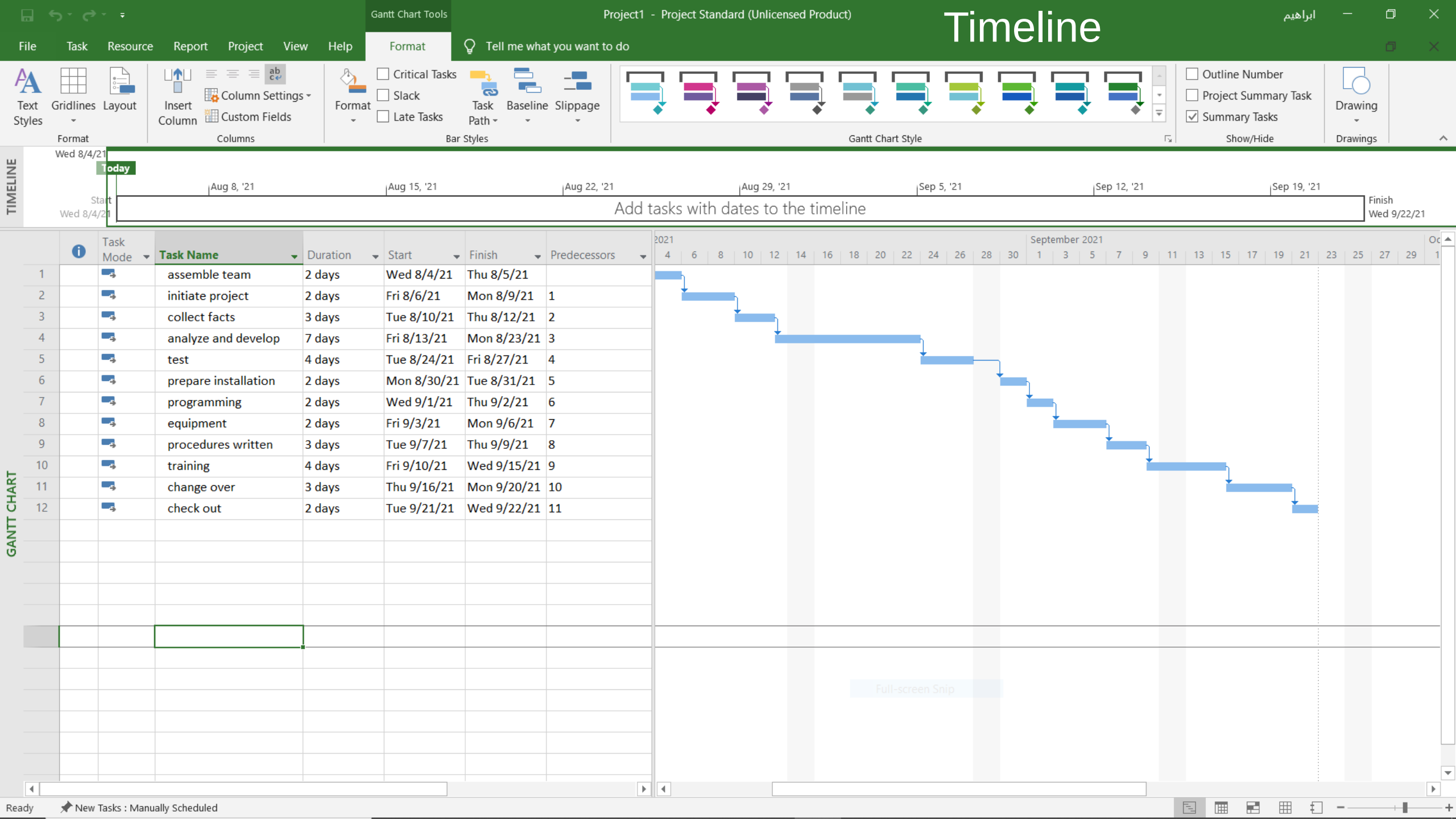
Industrial
allocate the tasks and responsibilities for the team members, determine the amount of time required, testing and reviewing the work.

Mechanics
Responsible for the production line, taking measurements and designing the arm .

Electrics
Figuring out the needed electronic devices and how to program them and compute the degree of efficiency.

AI
Apply the sensors in the arm so it recognizes its surroundings and doesn’t hurt anyone.

IOT
supervise the development of the devices or sensors themselves, programming the software that allows us to control the arm.


Gantt Chart Tools
Project1 - Project Standard (Unlicensed Product)
Timeline
ابراهيم
File
Task
Resource
Report
Project
View
Help
Format
Tell me what you want to do
Text Styles
Gridlines
Layout
Format
Insert Column
Column Settings
Custom Fields
Columns
Format
Critical Tasks
Slack
Late Tasks
Task Path
Baseline
Slippage
Bar Styles
Gantt Chart Style
Outline Number
Project Summary Task
Summary Tasks
Show/Hide
Drawing
Drawings
TIMELINE
Wed 8/4/21
Today
Aug 8, '21
Aug 15, '21
Aug 22, '21
Aug 29, '21
Sep 5, '21
Sep 12, '21
Sep 19, '21
Start
Wed 8/4/21
Add tasks with dates to the timeline
Finish
Wed 9/22/21
GANTT CHART
Task Mode
Task Name
Duration
Start
Finish
Predecessors
1 assemble team 2 days Wed 8/4/21 Thu 8/5/21
2 initiate project 2 days Fri 8/6/21 Mon 8/9/21 1
3 collect facts 3 days Tue 8/10/21 Thu 8/12/21 2
4 analyze and develop 7 days Fri 8/13/21 Mon 8/23/21 3
5 test 4 days Tue 8/24/21 Fri 8/27/21 4
6 prepare installation 2 days Mon 8/30/21 Tue 8/31/21 5
7 programming 2 days Wed 9/1/21 Thu 9/2/21 6
8 equipment 2 days Fri 9/3/21 Mon 9/6/21 7
9 procedures written 3 days Tue 9/7/21 Thu 9/9/21 8
10 training 4 days Fri 9/10/21 Wed 9/15/21 9
11 change over 3 days Thu 9/16/21 Mon 9/20/21 10
12 check out 2 days Tue 9/21/21 Wed 9/22/21 11
2021
September 2021
Ready
New Tasks : Manually Scheduled

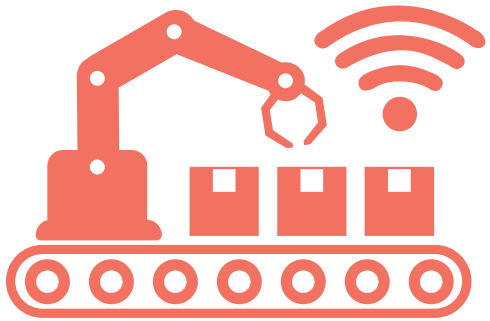
Introduction

Robotic arms are generally made to simulate a human arm. This is achieved by giving it 7 various segments each part giving it a larger degree of motion.

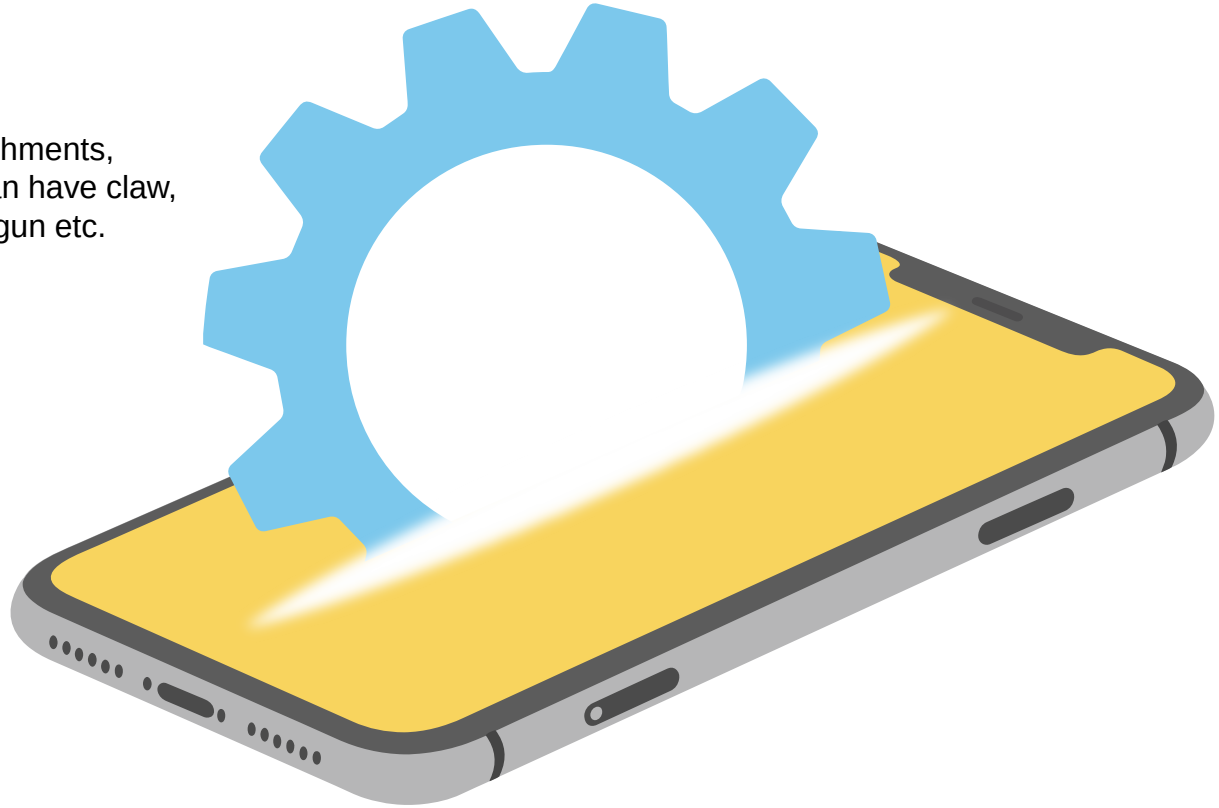
Robot arms will often have: The above stated 7 various segments bound together with 6 joints

Programmable which gives the user a choice to rotate each motor at various times

Have multiple attachments, meaning a robot can have claw, drill, welder, spray gun etc.



• Various sensors to perform specific tasks.



Poduction Line

MODELLING
1. Cutting tool ,3D print and CNC

PACKEGS Box

ASSEMBLY Mechanical

PROGRAM App and Web

THANK YOU